

CUSSAK, V.B.

E.D. Rozhdestvenskii's book "Physical and technological properties of the loese soils of Uzbekistan". Reviewed by V.B.Gussak. Izv. AN Uz.SSR Ser.tekh.nauk no.5:82-86 '61. (MTA 14:11)

1. Institut pochvovedeniya Ministerstva sel'skogo khozyaystva UzSSR.

(Uzbekistan—Loess)

(Rozhdestvenskii, E.D.)

GUSSAK, V.B.; PAGANYAS, K.P.

Some results of four years old experiments on the aggregation of irrigated typical Chernozem soils. Pochvovedenie no.5: 73-83 My '64. (MIRA 17:9)

1. Institut pochvovedeniya, Tashkent.

YAKHONTOV, Vnevolod Dmitriyevich; GUSSAKOVSKAYA, O.M., red.

[Following the Cherskii trail wildlife stories] Tropoiu
Cherskogo; rasskazy o prirode. Magadan, Magadanskoe
knizhnoe izd-vo, 1965. 77 p. (MIRA 18:10)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617620017-1"

IVLEV, Fedor Dmitriyevich; GUSSAKOVSKAYA, O.N., red.; FEDOROVA, V.V., tekhn. red.

[What milkmaids have to say; based on the materials of the First Provincial Conference of Milkmaids, March 7-8, 1960.
in Magadan] Rasskazyvaiut doiarki; po materialam Pervogo oblastnogo soveshchanila doiarok, prokhodivshego 7-8 marta 1960 goda v g. Magadane. Magadanskoe knizhnoe izd-vo, 1960.

(Magadan Province—Dairying)

(MIRA 14:12)

VROUSKIY, Boris Ivanovich; GUSSAKOYSKAYA, Q.M., red.; FEDOROVA, V.V., tekim. red.

[Along the paths of the taiga; memoirs of a goologist] Po taezhnym tropam; zapiski geologa. Magadan, Magadanskoe knizhnoe izd-vo, 1960. 123 p.

(Taigas)

(Taigas)

KANDROR, Iosif Solomonovich, prof., doktor biolog.nauk; KHLYPALOV, M.P., spetsred.; GELLERSHTEYN, V.I., red.; GUSSAKOVSKAYA, O.N., red.; FEDOROVA, V.V., tekhn.red.

[Man in the Far North] Chelovek na Severe. Magadan, Magadanskoe knizhnoe izd-vo, 1960. 55 p. (MIRA 14:4)

1. Institut obshchey i kommunal noy gigiyeny AN SSSR (for Kandror).
(RUSSIA, NORTHERN-MAN-INFLUENCE OF CLIMATE)

TIKHOMIROV, Boris Anatol'yevich; PIVNIK, Sarra Abramovna;
GUSSAKOVSKAYA, O.N., red.; FEDOROVA, V.V., tekhn. red.

[Pimus pumila; biology and utilization]Kedrovyi stlanik;
biologiia i ispol'zovanie. Mageden, Magedenskoe knizhnoe
1zd-vo, 1961. 35 p. (Pine)

(Pine)

SAVREY, Vladlen Sergeyevich; SHEPELEV, Igor' Timofeyevich; GUSSAKOVSKAYA, O.N., red.; FEDOROVA, V.V., tekhn. red.

[Automatic control in the mining industry] Avtomatika v gornoi promyshlennosti. Magadan, Magadanskoe khizhnoe izd-vo, 1961. 92 p. (MIRA 14:9)

(Magadan Province—Mining engineering—Equipment and supplies)
(Automatic control)

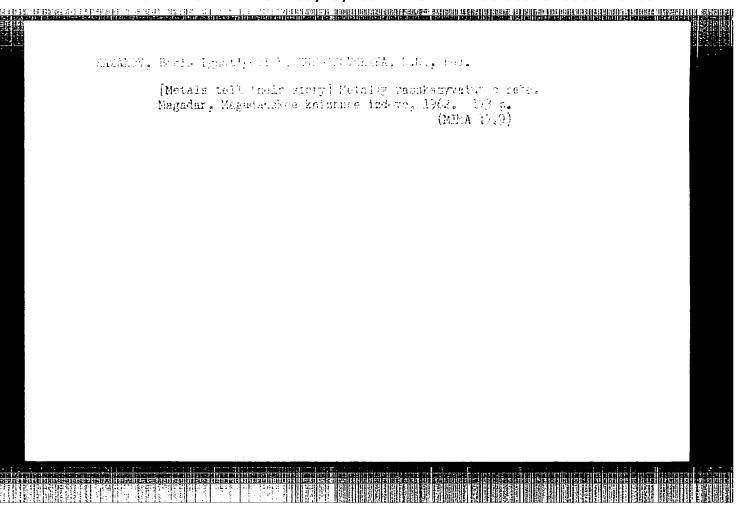
GROMOV, Leonid Vasil'yevich; GUSSAKOVSKAYA, O.N., red.; FEDOROVA. V.V., tekhn. red.

[Wrangel Island; popular science study] Ostrov Vrangelia; nauchnopopuliarnyi ocherk. Magadan, Magadanskoe knizhnoe izd-vo, 1961.

94 p. (MIRA 14:11)

(Wrangel Island—Discovery and exploration)

(Wrangel Island—Economic geography)



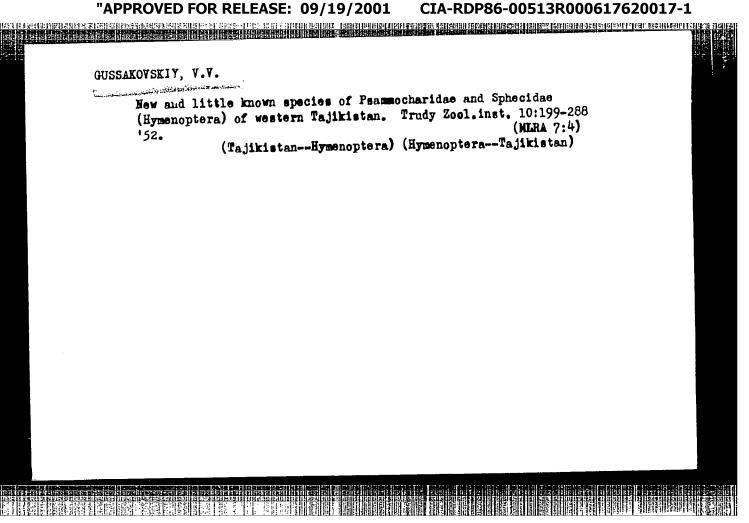
CIA-KUP86-00513R000617620017-1 POTAPENKO, Vladimir Vasil'yevich; LUBIY, Konstantin Ivanovich; GUSSAKOVSKAYA, O.R., red. [Improving the underground mining of sands] Sovershenstvovanie podzemnoi dobychi peskov. Magadan, Magadanskoe (MIRA 17:10) knizhnoe izd-vo, 1964. 99 p.

> CIA-RDP86-00513R000617620017-1" APPROVED FOR RELEASE: 09/19/2001

GUSSAKOVSKIY, V.V.

A new species of the genus Phylletema fall, found in Georgia (Hymenoptera, Tenthredinidae). Seeb.AN Gruz, SSR 8 no.3:179-181 47. (MIRA 9:7)

1.Akademiya nauk Grusinskey SSR, Zeelegicheskiy institut, Tbilisi. Predstavleno deystvitel'nym chlenem Akademii F.A. Zaytsevym (Georgia--Sawflies)



CIA-RDP86-00513R000617620017-1" APPROVED FOR RELEASE: 09/19/2001

22253 R/008/60/000/005/014/014 Gussef, L., (Bulgarian People's Republic) AUTHOR: On some geometric properties of the principal inertia axes TITLE: Studii și Cercetări de Mecanică Aplicată, no. 5, 1960, 1303 -PERIODICAL: According to a mechanical theorem, the central principal inertia axis of a plane figure is its principal inertia axis for each of its points. The present paper treats the problem of relative principal inertia axes at the poles which do not belong to one of the central principal inertia exes. The corollary forms a simple geometrical method for their construction. (F) is a certain plane figure with an Oct center of gravity, single central principal inertia axes ox, oy, indicated in such a way that  $I_X > I_y$ ;  $I_X$  and  $I_Y$  indicating the inertia moments of (F) in relation to these axes. The system of elliptic coordinates  $E(\mu_1, \mu_2)$  into which the XOY orthogonal system is transformed by the equation  $(\mu \neq -a^2, \mu \neq -b^2)$ (1)Card 1/6

On some geometric properties of the ...

· R/008/60/000/005/014/014

is called the system of inertia coordinates  $E_I$  for (F), if  $a^2=\frac{I_X}{F}; \quad b^2=\frac{I_Y}{F}, \; (a^2,b^2),$ 

$$a^2 = \frac{I_X}{F}$$
;  $b^2 = \frac{I_Y}{F}$ ,  $(a^2 > b^2)$ 

in which F is the area of the figure (F). The curves passing through the M (x, y) point determined by (1) are called coordinate curves of inertia of (F). Two curves, an ellipse and a hyperbola, having the same focuses  $C_1(0,-\sqrt{a^2-b^2})$ , and  $C_2(0,+\sqrt{a^2-b^2})$  independent from M are passing through each pole. Thus, the system E is orthogonal (Fig. 1).  $C_1$  and  $C_2$  characteristic for the figure (F) are called inertia forces. The following theorem has been established: The directions of the coordinate curves of inertia, by passing through a given pole, are the directions of the principal inertia axes of the relative figure at the considered pole. M (x, y) is an arbitrary pole in which  $x \neq 0$ ,  $y \neq 0$ . The inertia moments and the centrifugal moment in relation to the MX and MY orthogonal axes (Fig. 1) have the values expressed by

 $I_{xuy} = xyF \neq 0$ 

$$\begin{cases} I_{ux} = I_x + y^2 F = F(a^2 + y^2), \\ I_{uv} = I_v + x^2 F = F(b^2 + x^2). \end{cases}$$
 (3)

Card 2/6

R/008/60/000/005/014/014 A231/A126

On some geometric properties of the...

In equation

 $\psi(x, y) \equiv (a^2 + \mu)(b^2 + \mu) - x^2(b^2 + \mu) - y^2(a^2 + \mu) = 0, \quad (7)$ 

the values for  $x \neq 0$  (y=0) can be immediately found. On the basis of initial suppositions it is found that  $\mu \neq -a^2$  and  $\mu \neq -b^2$ , so that the equation (7) tial suppositions it is found that  $\mu \neq -a$  and  $\mu \neq -b$ , so that the equation tion (7) can be transformed to the equation  $tg(\phi + q_1\pi) = \frac{a^2 + \mu}{b^2 + \mu} \cdot \frac{y}{x} \qquad (q_1 = 0, \pm 1, \pm 2, \ldots) \qquad (9)$  which determines the direction of the principal axes of inertia. By knowing the most numbers  $\mu$  and  $\mu$  of every M poles the author obtains for I... the

the real numbers  $\mu_{\xi}$  and  $\mu_{\eta}$  of every M pole, the author obtains for  $I_{\xi}$ , the  $I_{\xi,\eta} = F(\tau^2 - \mu_{\xi,\eta}).$ 

By an intermediate expression the XOY system is transformed into a system of inertia coordinates. The coordinate curves of inertia passing through

ii  $(\mu_2, \mu_3)$  are given by  $\frac{x^2}{a^2 + \mu_2} + \frac{y^2}{b^2 + \mu_2} - 1 = 0 \rightarrow \frac{x^2}{\alpha_1^2} - \frac{y^2}{\beta_1^2} = 1$ 

22253 R/008/60/000/005/014/014 A231/A126

On some geometric properties of the...

The directions of the coordinate curves in M are determined by  $\varphi = \hat{c} + \frac{1}{2}$  if k = 0 and  $p_1 = \hat{b}_2$ ;  $\varphi_3 = \hat{c}_3$ , if the system E is orthogonal. Thus, the direction  $\hat{c}_3$  of the elliptic coordinate curves determines the direction  $\hat{c}_3$  of the principal axes of inertia of (F) in relation to which the inertia moment is the largest, and the direction  $\hat{c}_3$  of the principal axes of inertia of (F), at a ratio by which the inertia moment is smallest. The author then establishes two corollaries: corollary no. 1: with  $\hat{c}_1 = 1$  and  $\hat{c}_2 = 2$ , in which  $\hat{c}_1$  and  $\hat{c}_2$  are inertia focuses of (F), he deduces an equation, which shows that the geometric locus of the poles represents Kassini's curve, having as focuses the  $\hat{c}_1$  and  $\hat{c}_2$  inertia focuses. Thus, every figure has poles at which all axes are principal which can be considered as inertia focuses of the figure. These poles are single; corollary no. 2: with  $\hat{b}_1$  (x, y), considered to be a pole with the coordinates  $\hat{b}_1$  or  $\hat{b}_2$  in the E system the  $\hat{b}_1$  or axis is a limit element of the coordinate curves of the  $\hat{b}_1$  poles (x-0, y=0). Thus, for every pole, the  $\hat{b}_1$  (x  $\neq$   $\hat{b}_2$  , y=0) parts of the  $\hat{b}_1$  ox axis are limit elements of the coordinate curves in the E systems.

Card 4/6

On some geometric properties of the...

22253 R/008/60/000/005/014/014 A231/A126

By adding to the coordinate curves of inertia their limit elements and the OX, OY axes, it can be seen that all suppositions are correct, also for the poles of the principal central axes of inertia, with the exception of the  $C_1$  and  $C_2$  focuses, whose coordinate curves of inertia generally are non-determinable. According to corollary no. 1, however, it is possible to determine the relative principal axes of inertia at  $C_1$  and  $C_2$  in such a way, that the conclusions would be correct also for these poles. The OX axis and the straight line passing through the focus and being parallel to the OY axis are considered to be the relative principal axes of (F). If  $I_X = I_Y(a^2 = b^2, C_1 = C_2 = 0)$ , one obtains a special case in which the XOY cartesian coordinate system is transformed into a polar system. There are 2 figures and 2 non-Soviet-bloc references.

SUBMITTED: December 16, 1959

Card 5/6

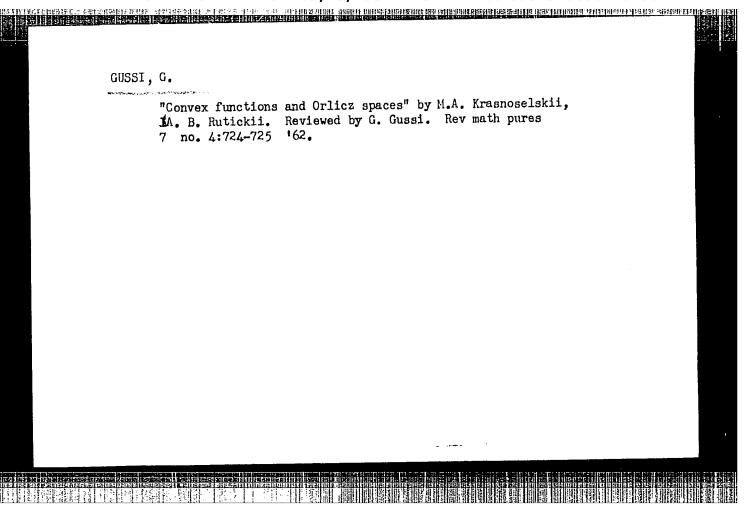
UMNOVA, M.A.; PERVALOVA, L.I.; GUSSEYNOV, Ch.3.; TSFFA, L.S.

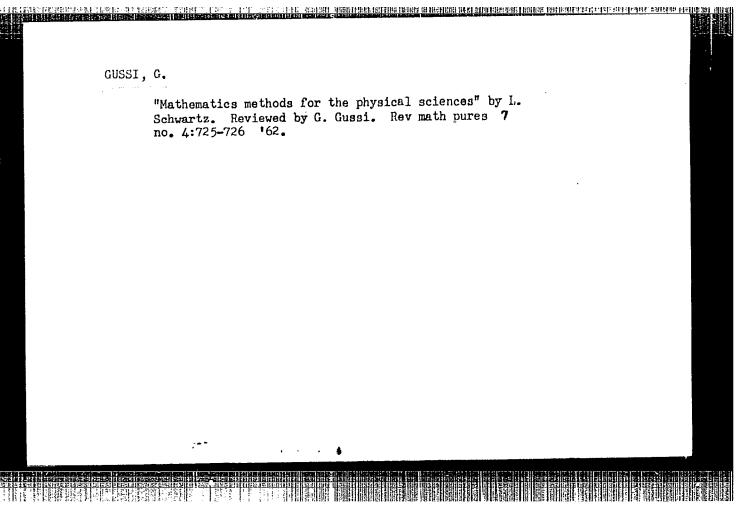
Immunological activity in patients with Werlhof's diseases.

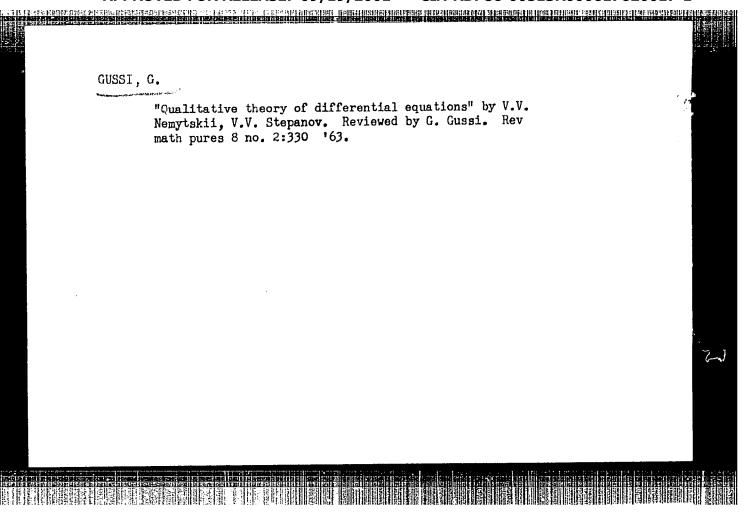
Probl. gemat. i perel. krovi 8 no.12;25-27 D '63.

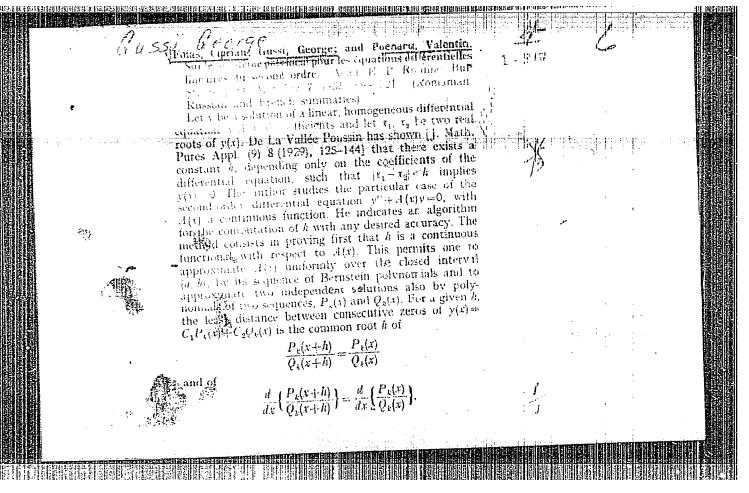
(MIRA 17:9)

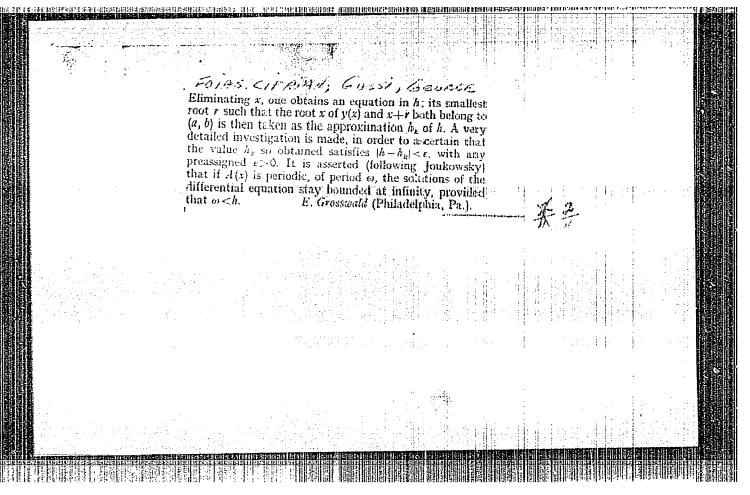
1. Iz TSentral'nogo ordena Lenina instituta gematologii i prelivaniya krovi (dir.- dotsent A.Ye. Kiselev).











PG - 727 CARD 1/3 USSR/WATHEMATICS/Differential equations SUBJECT

GUSSI G., POENARN V., FOJAŠ K.

The direct method for the treatment of the Cauchy problem for AUTHOR quasilinear hyperbolic equations of two independent variables. TITLE

Doklady Akad. Nauk 112, 381-382 (1957) PERIODICAL

reviewed 5/1957

The Cauchy problem for the equation

(1) 
$$\frac{\partial^2 u}{\partial x^2} - \frac{\partial^2 u}{\partial y^2} = f(x, y, u, \frac{\partial u}{\partial x}, \frac{\partial u}{\partial y})$$

is reduced to the Cauchy problem for the equation

by introduction of Bögel's hyperbolic operator

troduction of Bögel's hyperbolic operation 
$$\prod_{\substack{u(x+h+k,y+h-k)-u(x+k,y+h)-u(x+k,y-k)+u(x,y)\\h_k \to 0}} \frac{u(x+h+k,y+h-u(x+k,y+h)-u(x+k,y-k)+u(x,y)}{hk} ,$$

A solution of (2) is sought which satisfies the conditions

Doklady Akad Nauk 112 384 382 (1957)

$$u(x,0) = \varphi(x)$$
;  $\frac{\partial y}{\partial x} \left(u - \frac{\varphi(x+y) + \varphi(x-y)}{2}\right)\Big|_{y=0} = \psi(x)$ .

Here  $\varphi$  and  $\gamma$  belong to the class of functions  $c^0$  if f does not depend explicitly on  $\frac{\partial u}{\partial x}$ ,  $\frac{\partial u}{\partial y}$ , while otherwise  $\varphi$  belongs to the class of functions  $c^1$ . Let the function  $\omega(z)$  be of the type 0 if  $\frac{dz}{\omega(z)} = \infty$  and of the

type W if 
$$\int_{-\infty}^{\infty} \frac{dz}{\omega(z)} = \infty.$$

Theorem 1: If f is continuous and

$$|f(x,y,u,v,w) - f(x,y,u,v',w')| \leq K(y) \omega(|v-v'| + |w-w'|)$$

where K(y) is summable and  $\omega(z)$  is of the type 0, then there exists a solution of the Cauchy problem for (2). Theorem 2: If  $|f(x,y,u,v,w)-f(x,y,u',v',w')| \leq K(y)\omega(|u-u'|+|v-v'|+|w-w'|)$ , K(y) is summable and  $\omega(z)$  is of the type 0, then there exists at most one solution.

Doklady Akad. Nauk 112, 581-382 (1957)

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CARD 3/3

PG - 727

Theorem 3: If the conditions of the theorems 1 and 2 are satisfied, then the Cauchy problem is correct.

Theorem 4: If beside of the conditions of theorem 3 the initial values for all x are defined and  $|f(x,y,u,v,w)| \le K_1(y) \omega \cdot (|u|+|v|+|w|)$ , where  $K_1(y)$ 

is summable on every finite interval and  $\omega_{_1}(z)$  belongs to the type  $W_{_{\mathbb{S}}}$  then

the solution can be continued in the whole plane. Theorem 5: If beside of the conditions of theorem 4 the function  $K_1$  is summable on the whole axis, the initial values are uniformly bounded and

 $\int |\psi(\xi)| d\xi < +\infty, \text{ then the solution is bounded in the whole plane.}$ 

Theorem 6: If the conditions of theorem 4 are valid and K is summable on the whole axis, then the solution is stable in the sense of Ljapunov.

GUSSI, G.; FOIAS, C.; POENARU, V.

On th generalized solutions of certain linear and quasilinear equations in the Banach space. In French. p. 283.

REVUE DE MATHERMATIQUES PURES ET APPLIQUEES. JOURNAL OF PURE AND AFPLIEN MATHEMATICS. (Academia Republicii Populare Romine) Bucuresti. Rumania. Vol. 3, no. 2, 1958.

Monthly List of East European Accessions (EMAL) LC Vol. 9, no. 1, January 1960. UNCL

#### CIA-RDP86-00513R000617620017-1 "APPROVED FOR RELEASE: 09/19/2001

20-119-5-11/59 Foyash, Ch., Gussi, C., Poyenaru, V.

Generalized Solutions of a Quasilinear Differential Equation in . AUTHORS TITLE:

the Banach Space (Obobshchennyye resheniya kvasilineynogo differentsial nogo uravnentya v banakhovom prostranstve)

SSSR Vol 119, Nr 5, pp 884-887 (USSR) PERIODICAL: Doklady Akademii Nauk, 1958, Vol 119, Nr 5, pp 884-887 (USSR)

In the Banach space X the differential equations ABSTRACT:

# = A(t)x (1)

and

 $\frac{dx}{dt} = A(t)x + f(t,x)$ (2)

are considered, where A(t) are linear closed operators with regions of definition being dense in X. The authors investigate the existence and uniqueness of the solution of the Cauchy problem (in the generalized sense) for (1) and (2) respectively. According to the assumptions for A(t) and f(t,x) different assertions are obtained. The results partially overlap with the results of Kato [Ref 1] and Krasnosel'skiy [Ref 5,8,9]. There are 10 references, 6 of which are Soviet, 2 Japanese,

1 American, 1 German. Card 1/2

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, Generalized Solutions of a Quasilinear Differential Equation in 20-119-5-11/59 the Banach Space

PRESENTED: November 26, 1957, by S.L.Sobolev, Academician

SUBMITTED: October 7, 1957

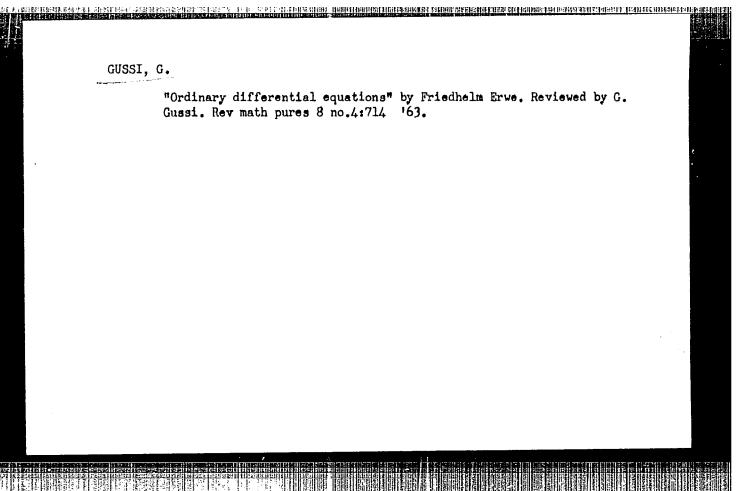
Card 2/2

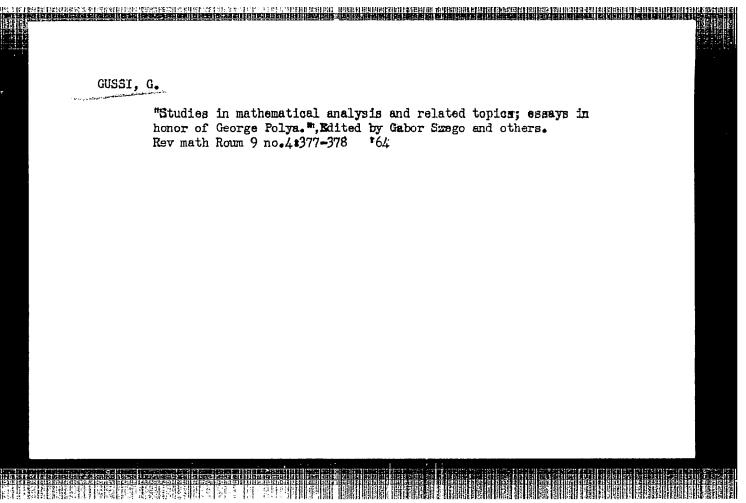
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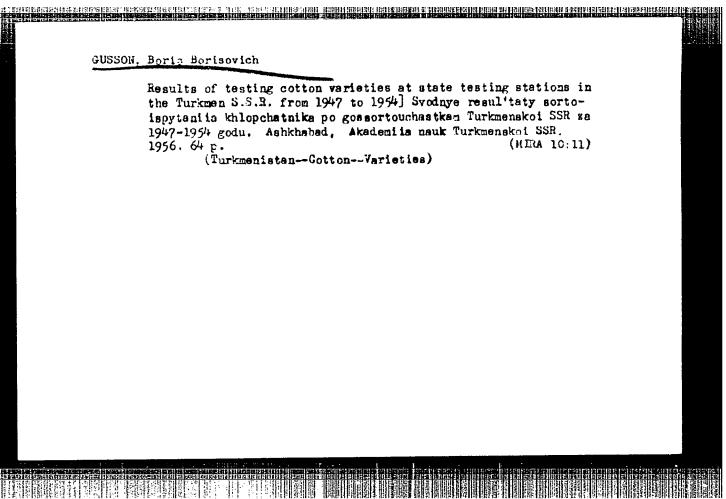
MELLI

FOIAS, C.; GUSSI, G. (Bucarest)

The Cauchy problem for systems of partial derivation equations with dependent coefficients of time. Bull math Rum 4 no.1: 39-44'60.







GUSSOV, V. V.

"From the History of Transcendental Functions in Russia and the USSR." Sub 7 Mar 51, Sci Res Inst of Mechanics and Mathematics, Moscow Order of Lenin State U imeni M. V. Lomonosov

Dissertations presented for science and engineering degrees in Moscow during 1951.

SOL Sum. No. 480, 9 May 55

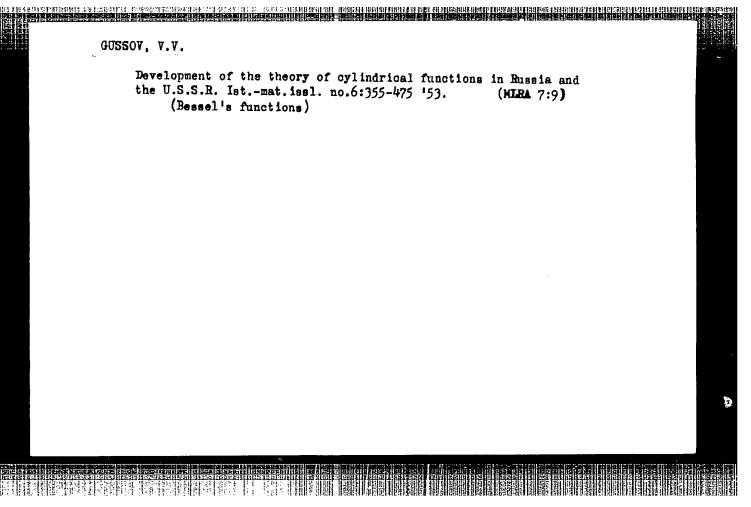
Cond. Physico-mallomatical fice.

BAKHMUTSKAYA, E.Ya. (Khar'kov); PRUDNIKOV, V.Ye. (Moscow); ROSSINSKIY, S.D. (Moscow); DEPMAN, I.Ya. (Leningrad); SHOSTAK, R.Ya. (Moscow); FIRHTENGOL'TS, G.M. (Leningrad); SPASSKIY, I.G. (Leningrad); GUSSOV, V.V. (Vladivostok); RYBKIN, G.F., redaktor; YUSHKEVICH, A.P., redaktor.

[Historical studies in mathematics. Vol. 5] Istoriko-matematicheskie issledovaniia. Moskva, Gos. izd-vo tekhniko-teoreticheskoi lit-ry, 1952. (MLNA 6:5)

Moscow. Universitet. Seminar po istorii matematiki.
 (Mathematice) (Osipovskii, Timofei Fedorovich, 1765-1832)
 (Peterson, Karl Mikhailovich, 1828-1881) (Letnikov, Aleksei Vasil'evich, 1837-1888)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617620017-1"



GUST, Gristian, ing.; SAAL, Garol, ing.

Urban transportation of persons in the twon of Brasov, Rumania.

Rev transport 10 no.2:65-75 F '63.

GUST, Christian; SAAL, Carol (Brasov), lector

Utilization of semiconductor rectifiers in electrified urban transports. Electrotehnica 11 no.10:369-375 0'63.

1. Inginer projectant principal la Directia de sistematizare, arhitectura si priectare a construtiilor, Brasov (for Gust). 2. Institutul Politelmic, Brasov (for Saal).

GUST, C., ing.; SAAL, C., ing.

Designing the modernization of urban passenger transportation; aspects of the city of Brasov. Rev transport 9 no. 6:260-269

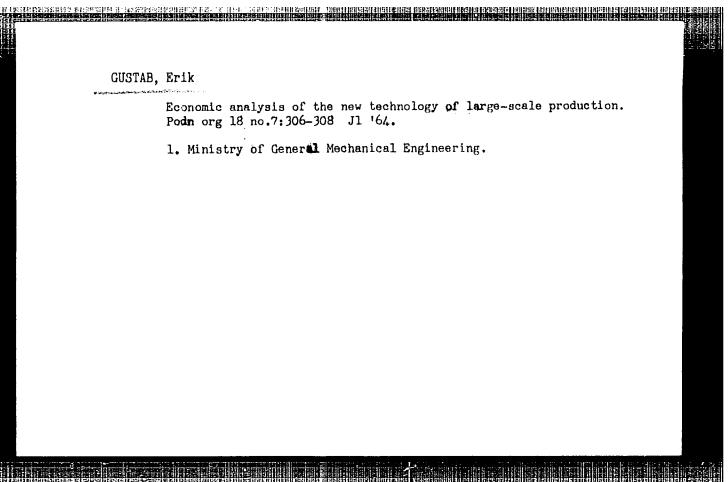
Je 162.

\$P\$1. 1915年11 19

GUSTAB, Erik

Economic evaluation and control of the performance of technical development plans. Podnik organizace 17 no.3: 105-108 Mr \*63.

1. Ministerstvo vseobecneho strojirenstvi.



STREDA, A.; WEISZER, L.; GUSTAFIK, St.

Asymmetrical incidence and the size of syndesmophytes in spondylarthritis ankylopoietica of the thoracic spine. Cesk. rentgenol. 16 no.3: 190-194 Je '62.

1. Vyzkumny ustav chorob revmatickych v Praze, reditel prof. dr. F. Lenoch Cs. st. kupele, Trencianske Teplice, riaditel L. Spiska. (SPONDYLITIS ANKYLOSING radiog)

CIA-RDP86-00513R000617620017-1" APPROVED FOR RELEASE: 09/19/2001

CUSTAFIK, S.; WEISZER, L.

Electrodermatography düring balneotherapy. Fysiat. vestn. 43 no.5: 268-274 S '65.

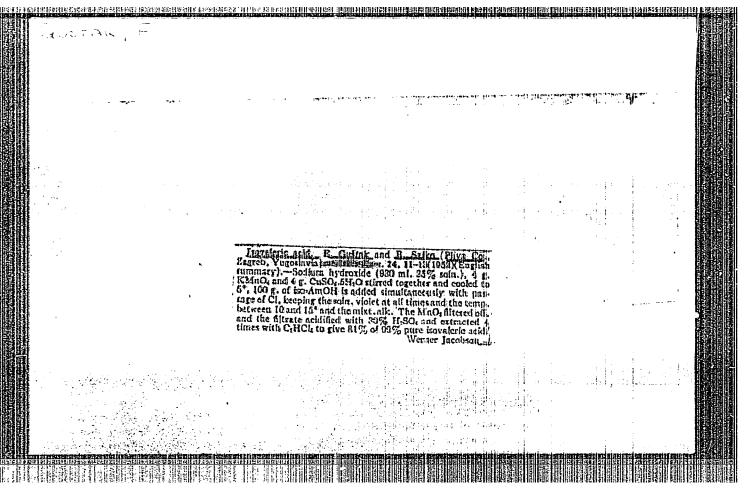
1. Cs. statne kupele v Trencianskych Tepliciach (riaditel MUDr. L. Spiska).

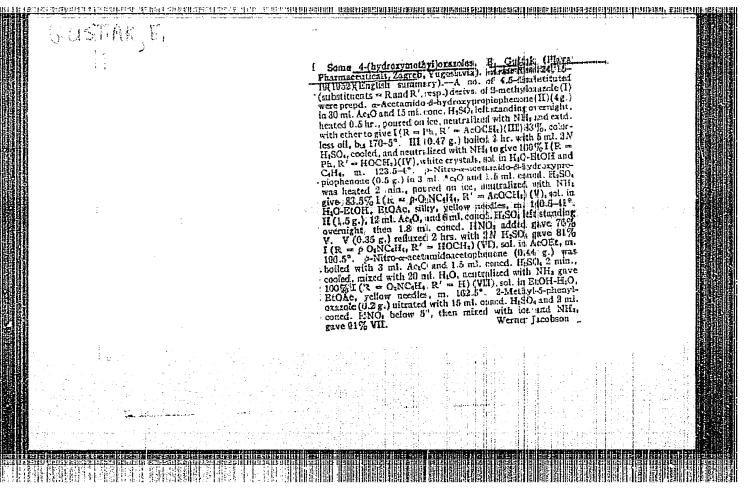
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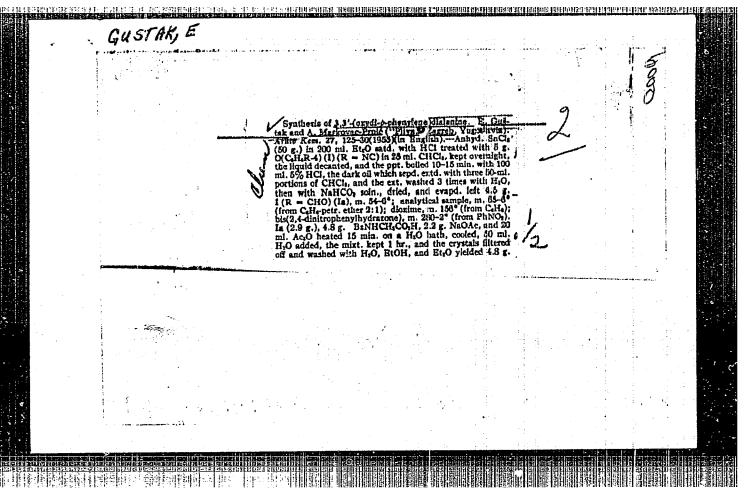
GUSTAINS Y, A.N.; NEMMONOV, S.A.

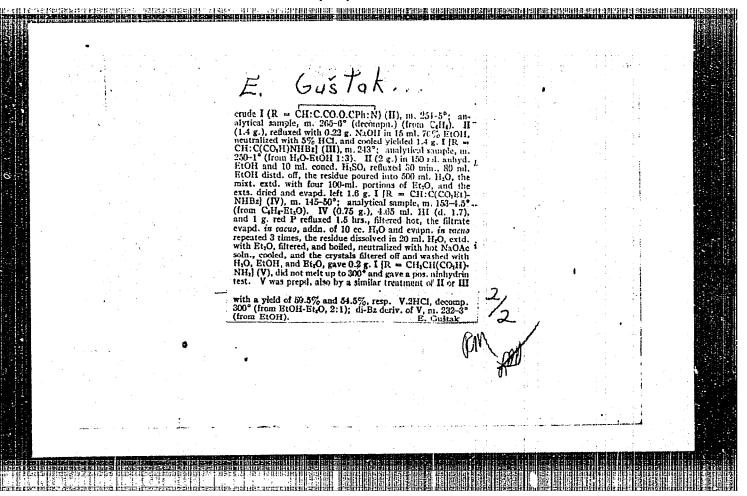
 $L_m$ -absorption spectra of antimony and K-absorption spectra of phosphorus in AIIIBV type binary semiconducting compounds. Izv. AN SSSR. Ser. fiz. 28 no. 5:922-933 My '64. (MIRA 17:6)

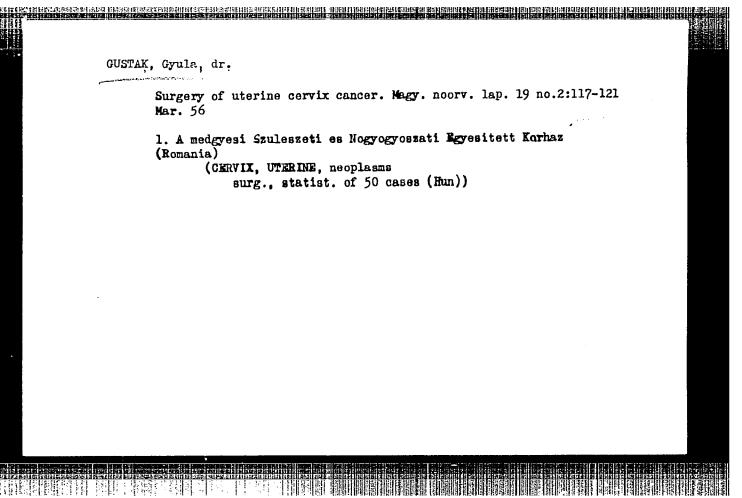
1. Institut fiziki metallov AN SSSR.











GUSTAK, M.

137-58-1-2056

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 278 (USSR)

AUTHOR:

Gustak, Miroslav

TITLE:

The Significance of Radiodefectoscopy in Crane Building

(Znacheniye radiodefektoskopii v kranostroyenii)

PERIODICAL:

Chekhosl. tyazh. prom-st', 1957, Nr 2, pp 40-45

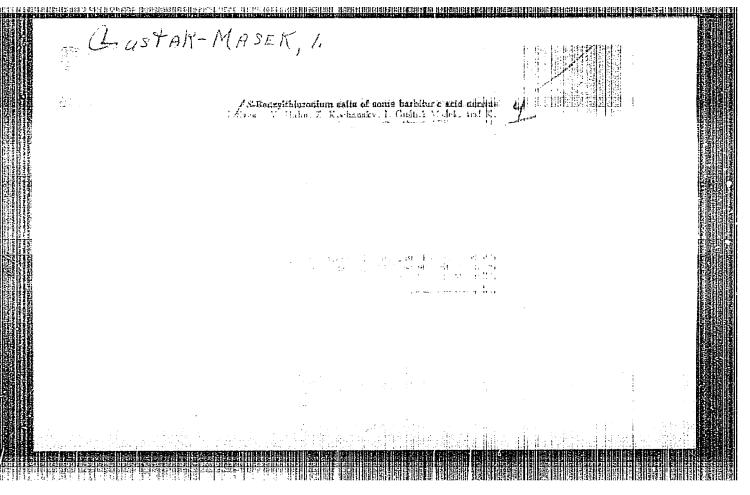
ABSTRACT:

The use of \*\*defectoscopy in crane building makes it possible to effect economies, to improve dependability in operation, and to reduce structural weight by more efficient utilization of the properties of the metal. The most practicable method of inspection of welded joints in cranes is irradiation by \*\*rays employing the isotopes Ir<sup>192</sup> and Cs<sup>137</sup>. An example of inspection of the frame of a crane truck is presented.

G. N.

1. Crenes-Construction 2. Radiedefectoscopy-Applications

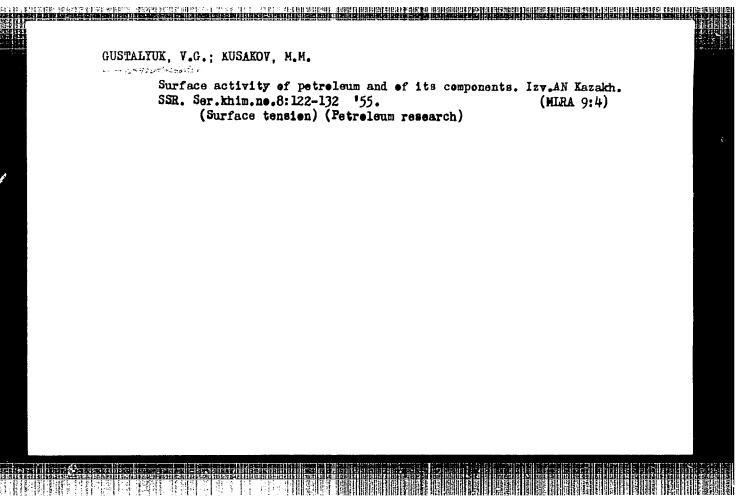
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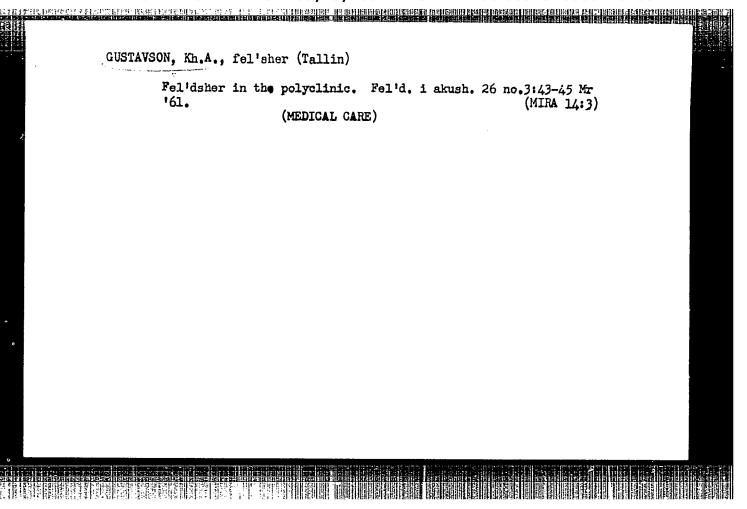
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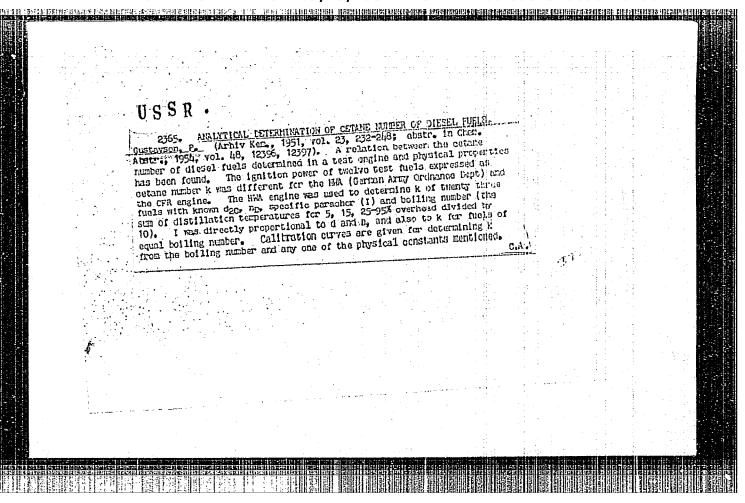
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Photocolorimetric detection of morphine in an opium-benzoin infusion.

Trudy Len.khim.-farm.inst. no.13:279-282 '62. (MIRA 1, 10)

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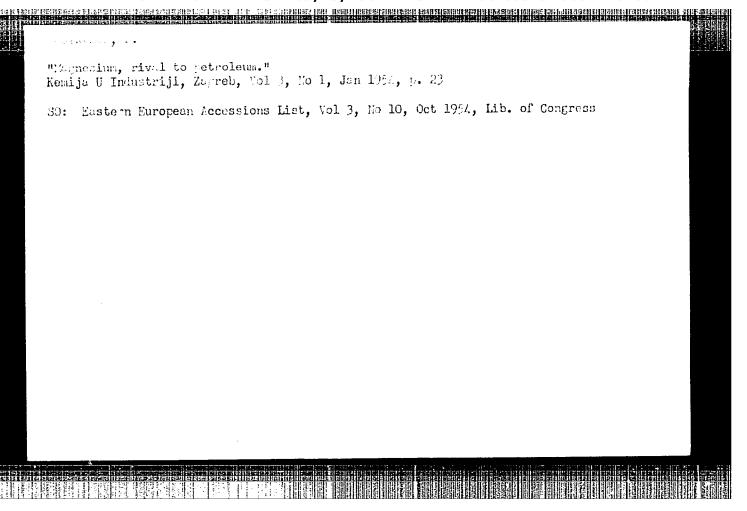
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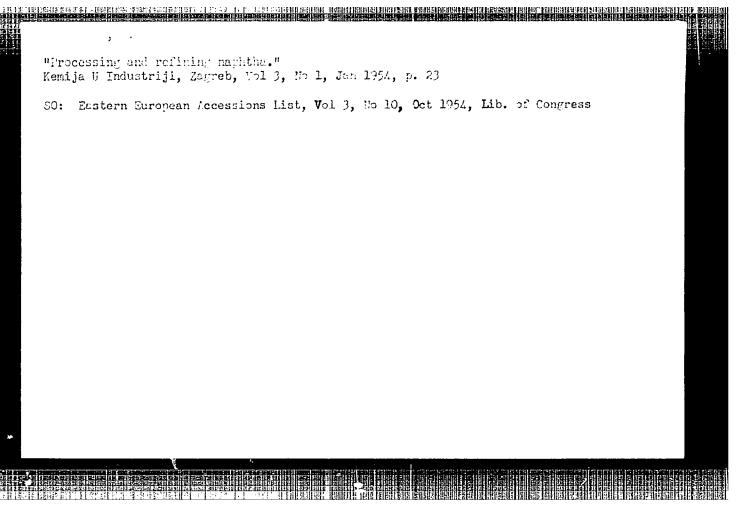
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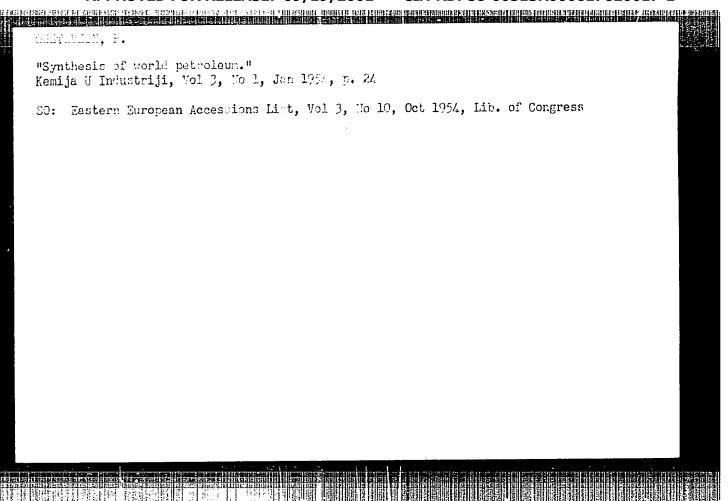
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"Technological problems of the production of synthesis of assemia. p. 0, (KENIJA U HEUSTRIJI, Vol. 3, No. 2/3, Fe./ Mar. 195h, Zagr., Yugoslavia)

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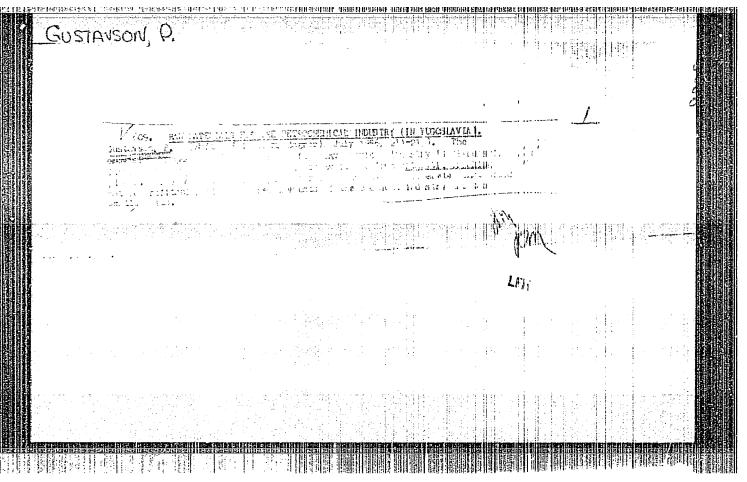
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GUSTAVSON, P. Cumol, propene tetramer, and polymeric benzine from the same plant.
p. 186
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Vol, 4, No. 9, Sept, 1955 KEMIJA U INDUSTRIJI

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Yugoslavia/Chemical Technology -- Chemical Products and Their Application. Nitrogen Industry, I-3

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1388

Gustavson, P. Author:

Institution: None

Title: Some Problems in the Removal of the Heat Evolved During the

Synthesis of Ammonia

GUSTANSCK, P

Periodical: Kemija u industriji, 1956, Vol 5, No 1, 1-5; Croatian (summaries

in German, French, and English)

Abstract: Various means of reducing the temperature in the catalyst bed during

the synthesis of ammonia are discussed. The calculations which are presented show that the production of steam with the heat evolved during that reaction increases the energy consumption in the com-

pression of the gas, hence offers no economic advantage.

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Yugoslavia Chemical Technology. Chemical Products

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and Their Application

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Chemico-technological problems of

atomic engineering

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31206

Author : Gustavson Per

Title : Atomic Fuels and Fission Products

Orig Pub: Kemija u industriji, 1956, 5, No 10, 247-269

Abstract: A review. Raw material sources of U- and Th-

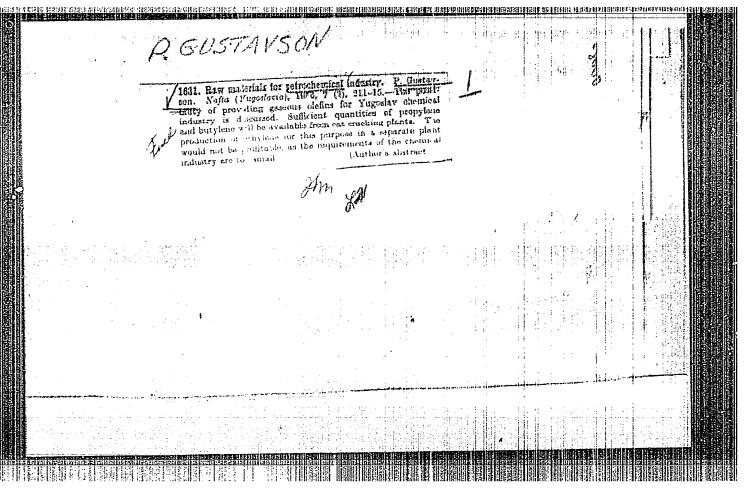
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YUGOSIAVIA/Chemical Technology. Chemical Products and Their Applications, General

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Nos Jour : Ref Zhur - Khin. , 1958, No 24, No 81323

: Gustavson P. Author

: Certain Problems Involved in the Further Chemical Develop-Inst Title

ment of Yugoslavia

Orig Pub : Kemija u industriji, 1957, 6, No 1, 5-8

Abstract : Review. Problems involved in the present status and in the

future development of the C2H2 and oil refining industries,

manufacture of plastics, synthetic fibers, and of

synthetic fertilizers are covered .- Ye. Stefanovskiy

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Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 71967.

Upon The Development of the Oil-Chemical Industry in : Per. Gustavaon. Author

Inst Title

Orig Pub: Kemija u industriji, 1957, 6, No 5, 145-149.

Abstract: It is noted that Yugoslavia is in possession of mineral oil, natural gas, coal and other ray materials for the organic synthesis industry. A review of the most important synthesis products and industry branches, in which these raw materials

: 1/2 Card

YUG/2-58-12-5/19 Gustavson, Per., Doctor of Engineering (Zagreb) Some Questions Concerning the Establishment of the Petrochemical Industry (Neka pitanja podizanja petrokemijske AUTHOR: (- Dobivanje oleindustrije). III. Jefin Production TITLE: Kemija u industriji, 1958, Nr 12, pp 319 - 329 The author deals with the problems of olefin production, with particular reference to the prospects in Yugoslavia. PERIODICAL: The sources for deriving olefins are discussed and dismissed except for pyrolytic methods. Conditions are listed ABSTRACT: under which the production of pure olefins (ethylene, propylene, butylene) from gaseous mixtures is economically advisable, the method in each case depending on the particular olefin required and the degree of purity stipulated. Essentially, however, the petrochemical industry must be developed along the lines of hydrocarbon pyrolysis. Acetylene and "aromatic distillate", by-products of the pyrolytic process, are so much undesirable ballast and must be removed. Pyrolysis may be carried out by: 1) pipe-still method, 2) the cyclic process in chambers lined with re-Card 1/3 

YUG/2-58-12-5/19

Some Questions Concerning the Establishment of the Petrochemical Industry

fractory material and with regenerator heating, 3) the "moving bed" method for heavier fuels. Light fuels are preferred to heavier raw materials since they yield more gas and less by-products. Ethylene will be the main pyrolysis product, propylene and butylene being produced only in small quantities. The effects of temperature, duration of reaction and pressure on the process are discussed. Catalysts are undesirable here. The percentage yield of pyrolysis products is listed for various raw materials (propane, butane, benzine, etc). In Yugoslavia an olefin installation would need a capacity of 20,000 tons of olefins a year. The article lists the necessary amounts of the various raw materials required to guarantee this capacity. Methods of hydrocarbon pyrolysis suitable to each fuel are reviewed and their production capacities compared. On the basis of an economic analysis carried out by the Tehnolosko-ekonomsko biro za kemijsku industriju (Technological-Economic Bureau for the Chemical Industry), Zagreb, the author concludes that the only practical raw materials for this purpose are: heavy benzine, fuel oil and crude petroleum. Ethylene could be extracted from

Card 2/3 

YUG/2-58-12-5/19
Some Questions Concerning the Establishment of the Petrochemical Industry

fermentative spirit as a temporary solution to the problem. In spite of their much higher cost it would be more economical to produce olefins from the lighter raw materials. The only feasible methods are those based on refinery gas, crude petroleum or its residues, while for Yugoslavian conditions the Hoechst coking process is most suitable. Other methods are enumerated which may be made feasible by a change in the prices of raw materials. There are 8 tables and 21 references of which 2 are Yugoslavian, 2 English, 1 Dutch and 16 American.

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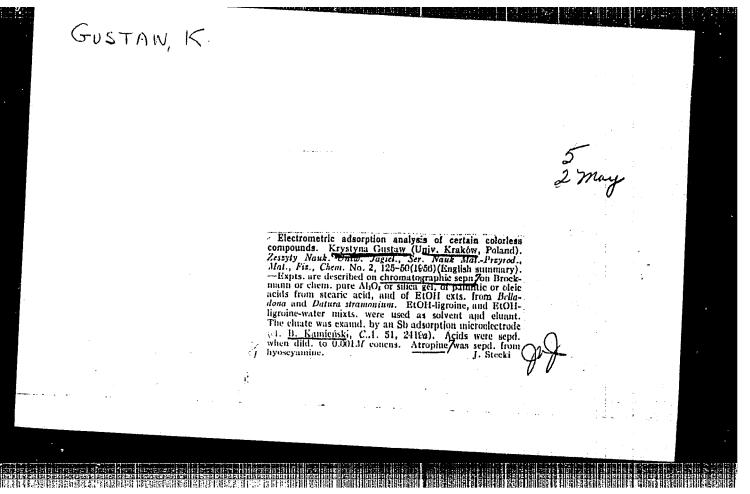
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1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut dobychi uglya gidravlicheskim sposobom.

BUDNITSKAYA, R., nauchnyy sotrudnik; VAN'KEVICH, V., nauchnyy sotrudnik;

GUSTER, V., nauchnyy sotrudnik

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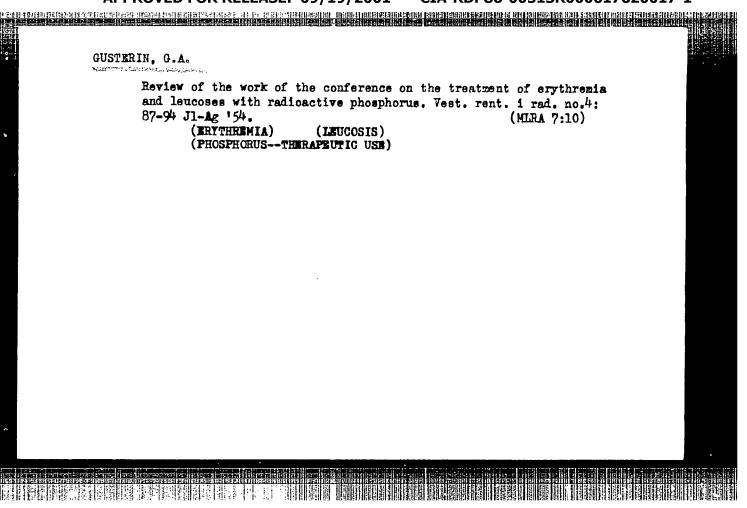
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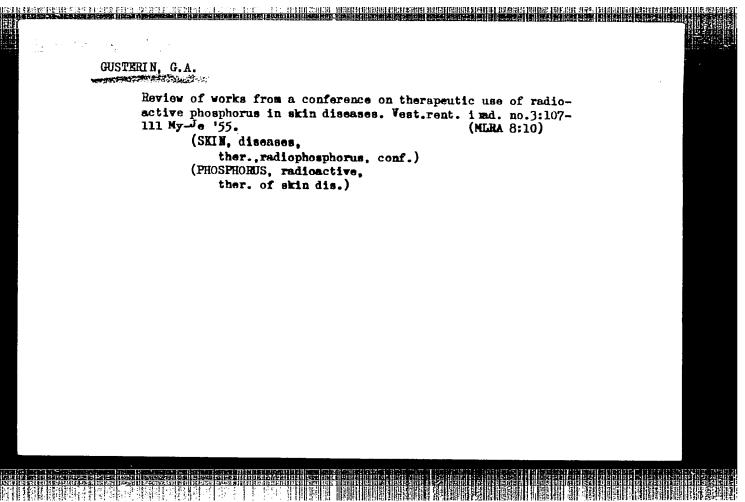
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"On Reactions of the Endocrine System to the Action of Ionizing Radiation," by G. A. Gusterin, Meditsinskaya Radiologiya, Vol 2, No 1, Jan/Feb 57, pp 82-85

Summaries are given of approximately 24 reports on the above subject presented from 31 May to 2 June 1956 at the Conference on the Study of the Reactions of the Endocrine System to the Action of Ionizing Radiation in Leningrad, organized by the Central Scientific Research Roentgeno-Radiological Institute of the Ministry of Health USSR in conjunction with the Institute of Evolutionary Physiology of the Academy of Sciences USSR.

Examples of reports summarized follow: "Reaction of Some Endocrine Organs to General Single and Repeated Irradiation With Radioactive Cobalt From an External Source," "Morphological Changes of Endocrine Glands in Radiation Injuries," "On the Causes of the Disturbance of the Estrus Cycle in Mice Subjected to X-Irradiation," and "On the Effect of Steriod Estrogen Hormones on Radiosensitivity." (U)

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[Fortieth anniversary of the Central Radiological Research Institute of the Ministry of Public Health of the U.S.S.R.]
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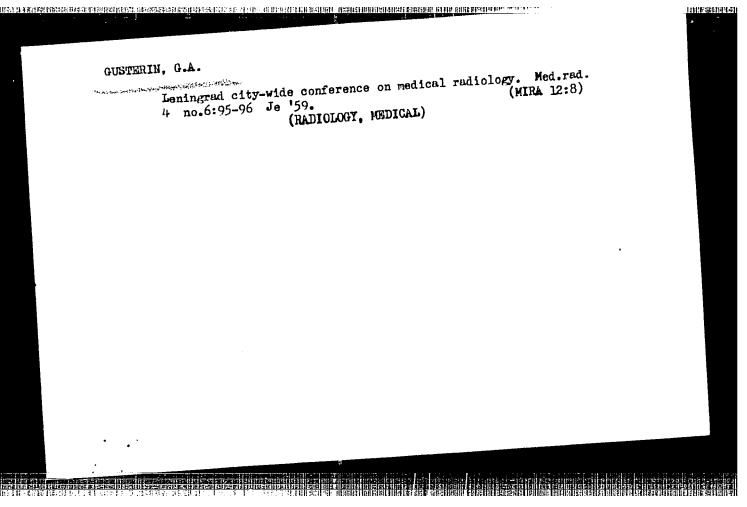
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POBEDINSKIY, Mikhail Nikolayevich, prof., red.; GUSTERIN, Georgiy Adrianovich, red.; STRASHININ, Aleksandr Ivanovich, red.; PELESHUK, P.S., tekhn.red.

> [Problems in clinical radiology; transactions of the Central Research Institute of Medical Radiology | Voprosy klinicheskoi radiologii; trudy TSentral'nogo nauchno-isaledovatel'skogo instituta meditsinskoi radiologii Ministerstva zdravookhraneniia SSSR. Pod red. M.N.Pobedinskogo, G.A.Gusterins i A.I.Strashinina. Leningrad, 1960. 321 p. (MIRA 14:3)

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